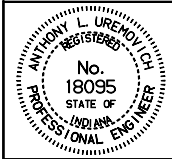


5:1 SLOPE										
Pipe Size	H	L	W	Longitudinal Pipe			Cross Tube			
				S	No.	Length	No.	Length	S 1	S 2
17 x 13	1'-9"	8'-9"	2'-0"	8'-11 $\frac{1}{2}$ "	1	10'-11 $\frac{1}{2}$ "	1	2'-7 $\frac{1}{2}$ "	6'-1 $\frac{1}{2}$ "	4'-6"
21 x 15	1'-11"	9'-7"	2'-0"	9'-9 $\frac{1}{4}$ "	1	11'-9 $\frac{3}{8}$ "	1	2'-7 $\frac{1}{2}$ "	6'-8 $\frac{1}{4}$ "	4'-9"
24 x 18	2'-2"	10'-10"	3'-0"	11'-0 $\frac{3}{8}$ "	2	13'-1"	1	3'-7 $\frac{1}{2}$ "	8'-8 $\frac{3}{8}$ "	4'-0"
28 x 20	2'-4"	11'-6"	3'-0"	11'-0 $\frac{3}{4}$ "	2	13'-11 $\frac{1}{8}$ "	1	3'-7 $\frac{1}{2}$ "	9'-6 $\frac{3}{4}$ "	4'-0"
35 x 24	2'-8"	13'-4"	4'-0"	13'-7 $\frac{1}{8}$ "	3	15'-7 $\frac{1}{2}$ "	1	4'-7 $\frac{1}{2}$ "	12'-3 $\frac{1}{8}$ "	3'-0"
42 x 29	3'-1"	15'-5"	4'-0"	15'-8 $\frac{3}{8}$ "	3	17'-9"	1	4'-7 $\frac{1}{2}$ "	12'-10 $\frac{3}{8}$ "	4'-6"
49 x 33	3'-5"	17'-1"	5'-0"	17'-5 $\frac{1}{2}$ "	3	19'-5 $\frac{1}{2}$ "	1	5'-7 $\frac{1}{2}$ "	13'-1"	6'-0"
57 x 38	3'-10"	19'-2"	5'-0"	19'-6 $\frac{1}{2}$ "	3	21'-6 $\frac{1}{2}$ "	1	5'-7 $\frac{1}{2}$ "	13'-2 $\frac{1}{2}$ "	8'-0"
64 x 43	4'-3"	21'-3"	6'-0"	21'-8"	4	23'-8 $\frac{3}{8}$ "	1	6'-7 $\frac{1}{2}$ "	12'-10"	10'-6"
71 x 47	4'-7"	22'-11"	6'-0"	23'-4 $\frac{3}{8}$ "	4	25'-4 $\frac{3}{4}$ "	1	6'-7 $\frac{1}{2}$ "	13'-6 $\frac{3}{8}$ "	11'-6"

6:1 SLOPE										
Pipe Size	H	L	W	Longitudinal Pipe			Cross Tube			
				S	No.	Length	No.	Length	S 1	S 2
17 x 13	1'-9"	10'-6"	2'-0"	10'-7 $\frac{3}{4}$ "	1	13'-0"	2	2'-7 $\frac{1}{2}$ "	6'-7 $\frac{3}{4}$ "	3'-0"
21 x 15	1'-11"	11'-6"	2'-0"	11'-7 $\frac{1}{8}$ "	1	14'-0 $\frac{1}{8}$ "	2	2'-7 $\frac{1}{2}$ "	6'-1 $\frac{1}{8}$ "	3'-9"
24 x 18	2'-2"	13'-0"	3'-0"	13'-2 $\frac{1}{4}$ "	2	15'-6 $\frac{1}{8}$ "	1	3'-7 $\frac{1}{2}$ "	9'-8 $\frac{1}{4}$ "	5'-6"
28 x 20	2'-4"	14'-0"	3'-0"	14'-2 $\frac{1}{4}$ "	2	16'-6 $\frac{1}{2}$ "	1	3'-7 $\frac{1}{2}$ "	9'-8 $\frac{1}{4}$ "	6'-6"
35 x 24	2'-5"	16'-0"	4'-0"	16'-2 $\frac{3}{8}$ "	3	18'-6 $\frac{1}{4}$ "	1	4'-7 $\frac{1}{2}$ "	13'-2 $\frac{3}{8}$ "	5'-0"
42 x 29	3'-1"	18'-6"	4'-0"	18'-9"	3	21'-1 $\frac{1}{4}$ "	1	4'-7 $\frac{1}{2}$ "	13'-6"	7'-3"
49 x 33	3'-5"	20'-6"	5'-0"	20'-9 $\frac{3}{8}$ "	3	23'-1 $\frac{3}{8}$ "	1	5'-7 $\frac{1}{2}$ "	13'-3 $\frac{3}{8}$ "	9'-6"
57 x 38	3'-10"	23'-0"	5'-0"	23'-3 $\frac{3}{4}$ "	3	25'-8"	1	5'-7 $\frac{1}{2}$ "	13'-9 $\frac{3}{4}$ "	11'-6"
64 x 43	4'-3"	25'-6"	6'-0"	25'-10 $\frac{1}{4}$ "	4	28'-2 $\frac{1}{2}$ "	2	6'-7 $\frac{1}{2}$ "	13'-4 $\frac{1}{4}$ "	7'-3"
71 x 47	4'-7"	27'-6"	6'-0"	27'-10 $\frac{3}{4}$ "	4	30'-2 $\frac{3}{4}$ "	2	6'-7 $\frac{1}{2}$ "	13'-4 $\frac{1}{2}$ "	8'-3"

INDIANA DEPARTMENT OF TRANSPORTATION
GRATED BOX END SECTION
TYPE I DIMENSIONS
 JANUARY 1999
 STANDARD DRAWING NO. E 715-GBTO-07

DETAILS PLACED IN THIS FORMAT 11-15-99


 /s/ Anthony L. Uremovich 11-15-99
 DESIGN STANDARDS ENGINEER DATE

/s/ Firooz Zandi 11-15-99
 CHIEF HIGHWAY ENGINEER DATE
 DESIGN STANDARDS ENGINEER ORIGINALLY APPROVED 1-04-99